

Lite APA

- Gravity **7.6 BLG**
- ABV **2.9 %**
- IBU **24**
- SRM **4.1**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **38 liter(s)**
- Trub loss **5 %**
- Size with trub loss **41.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **48.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **70 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **78.3C**
- Add grains
- Keep mash **60 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **36.1 liter(s)** of **76C** water or to achieve **48.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (50%)	80 %	5
Grain	Rye Malt	2 kg (33.3%)	63 %	10
Grain	Strzegom Karmel 30	0.5 kg (8.3%)	75 %	30
Grain	Płatki owsiane	0.5 kg (8.3%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	15 g	60 min	15.5 %
Boil	Azacca	10 g	15 min	14 %
Boil	Mosaic	10 g	10 min	10 %
Aroma (end of boil)	Azacca	10 g	1 min	14 %
Aroma (end of boil)	Mosaic	10 g	1 min	10 %
Dry Hop	Azacca	20 g	3 day(s)	14 %
Dry Hop	Mosaic	20 g	3 day(s)	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale